

## **Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

### **Listing of Claims:**

1. **(Currently Amended)** A method of controlling access to records stored in a database, said method comprising:

**providing a database program as an interface for accessing records stored in said database;**

defining, **by using said database program,** at least one expression associated with ~~at~~ **for at** least one record of said database, **wherein said at least one expression defines access right to said at least one record for a plurality of users of said database program, and** wherein said at least one expression is a calculation expression that can be evaluated **calculated for each one of said plurality of users in order to determine whether each one of said plurality of users can access** at least partly based on ~~at least one field of said at least one record;~~

**receiving a request associated with a first user of said database program to access said at least one record;**

evaluating, **by said database program,** said at least one **calculation** expression **for said first user to determine whether** ~~[[for]]~~ said **first user should be allowed access to said** at least one record; and

allowing **said first user to** access ~~[[to]]~~ said at least one record based on said evaluating of said at least one expression **for said first user.**

2. **(Canceled)**

3. **(Currently Amended)** A method as recited in claim 1, wherein said at least one expression is a calculation expression that can be evaluated at least partly based on at least one state variable **or a field of a record** of said database.

4. **(Original)** A method as recited in claim 1,

wherein said at least one expression can be defined based on fields and state variables of said database, and

wherein said evaluating operates to return only one of two possible values, one of said possible values indicating that access to said at least one record should be granted, and the other one of said possible values indicating that access to said at least one record should be denied.

5. **(Canceled)**

6. (Canceled)

7. (Original) A method as recited in claim 1, wherein said defining of said at least one expression operates to define access privileges for a user of said database with respect to at least one operation that can be performed on one or more records of said database.

8. (Canceled)

9. (Currently Amended) A method as recited in claim [[8]] 1, wherein said at least one user is assigned a password that is associated with said expression.

10. (Original) A method as recited in claim 1, wherein access to said at least one record can be for browsing, editing, or deleting of said at least one record.

11. (Currently Amended) A method of controlling access to records stored in a database, said method comprising:

identifying a password that is associated with one or more users of said database;

defining a calculation expression for said identified password, wherein said calculation expression can be evaluated at least partly based on at least one field of at least one record in said database, and wherein said calculation expression defines access privileges of said one or more users with respect to at least one operation that may be requested to be performed by said one or more users on one or more records of said database;

receiving a request to perform said at least one operation on one or more records of said database, said request being identified as a request made by said one or more users associated with said password;

evaluating said calculation expression for said one or more records, based on one or more fields of said one or more records, when said request has been received[[;]] 1, said evaluation returning only one of two possible values, one of said possible values indicating that said at least one operation should be granted and another one of said possible values indicating that said at least one operation should be denied;

granting said at least one operation to be performed when said evaluation returns one said possible value to indicate that said at least one operation should be granted; and

denying said at least one operation to be performed when said evaluation returns one said another possible value to indicate that said at least one operation should be denied.

12. (Original) A method as recited in claim 11, wherein said at least one operation can be a browse, an edit, or a delete operation.

13. (Original) A method as recited in claim 11, wherein said calculation expression is not explicitly defined for said at least one operation but said calculation expression is one that has been defined for another operation which has been considered as a related operation to said at least one operation.

14. (Original) A method as recited in claim 11,  
wherein said calculation expression can be evaluated at least partly based on a value of at least one field of said at least one record, and  
wherein said calculation expression can be evaluated at least partly based on at least one state variable of said database.

15. (Original) A method as recited in claim 14, wherein said method further comprises:

granting temporary or limited access to said at least one record to allow said evaluating of said calculation expression.

16. **(Canceled)**

17. **(Currently Amended)** A database system as recited in claim [[35]] **37**, wherein said Graphical User Interface operates to provide the ability for a user of said database to define an expression associated with at least one operation that may be requested to be performed by another user of said database on said one or more records stored in said database.

18. **(Currently Amended)** A database system as recited in claim [[35]] **37**, wherein said Graphical User Interface operates to provide the ability for a user to define said expression without requiring said user to write a programming script.

19. **(Currently Amended)** A database system as recited in claim [[35]] **37**,  
wherein said Graphical User Interface provides a window that allows a user to interact with said Graphical User Interface to identify a password for which access privileges may be defined or re-defined, **for said at least one record**.

20. **(Currently Amended)** A database system as recited in claim [[19]] **39**, wherein said Graphical User Interface further provides a window that allows a user to specify a calculation expression which defines access privileges with respect to at least one operation that may be requested to be performed on said one or more records.

21. (Original) A database system as recited in claim 20, wherein said at least one operation can be a browse, edit, or a delete operation.

22. (Original) A database system as recited in claim 20,  
wherein said calculation expression can be evaluated at least partly based on a value in at least one field of said one or more records of said database, and  
wherein said calculation expression can be evaluated at least partly based on at least one state variable of said database.

**23. (Currently Amended)** A database system as recited in claim [[35]] 39, wherein said database program operates to determine whether access to at least one of said one or more records should be granted or denied.

24. (Original) A database system as recited in claim 23, wherein said determining of whether access to said at least one record should be granted or denied is performed by evaluating a calculation expression for said at least one of said one record.

**25. (Canceled)**

26. (Original) A database system as recited in claim 24, wherein said access to said at least one record can be for browsing, editing, or deleting of said record.

27. (Original) A database system as recited in claim 24,  
wherein said database system further comprises a cache, and  
wherein said cache operates to store an evaluated result of at least one calculation expression.

**28-36 (Canceled)**

37. (New) A database system including at least a database program for controlling access to records stored in a database, wherein said database program, provides an interface for accessing records stored in said database, and wherein said database program operates to:

provide a graphical user interface which can be used to define at least one expression for at least one record of said database, wherein said at least one expression defines access right to said at least one record for a plurality of users of said database program, and wherein said at least one expression is a calculation expression that can be calculated for each one of said plurality of users in order to determine whether each one of said plurality of users can access said at least one record;

receive a request associated with a first user of said database program to access said at least one record;

evaluating, by said database program, said at least one calculation expression for said first user to determine whether said first user should be allowed access to said at least one record; and

allowing said first user to access said at least one record based on said evaluating of said at least one expression for said first user.